

Name: _____

Worksheet – Simplifying Non-Variable Roots of Higher Degree

Directions: Please simplify the following with an exact answer.

1. $\sqrt[4]{625}$

2. $\sqrt[3]{-8}$

3. $6 \cdot \sqrt[5]{243}$

4. $-7 \cdot \sqrt[3]{64}$

5. $\sqrt[4]{1536}$

6. $\sqrt[3]{-8640}$

7. $\sqrt[4]{810}$

8. $11\sqrt[4]{96}$

9. $\sqrt[5]{3888}$

10. $\sqrt[3]{-540}$

11. $5 \cdot \sqrt[5]{-384}$

12. $\sqrt[5]{360}$

13. $\sqrt[7]{1920}$

14. $-3\sqrt[3]{1080}$

15. $7 \cdot \sqrt[4]{1296}$

16. $\sqrt[3]{-64}$

17. $\sqrt[4]{-625}$

18. $\sqrt{-20}$